|  |
| --- |
| **Description of Project:** This is a culminating activity for a unit in Chemistry on the Periodic Table of Elements. Students will work in groups to discover all the information they can about a particular element. They will then create an advertisement trying to sell that element to the general public. They will need to be creative in “selling” their element. Students will video record their advertisements and present them to their classmates. |
| **MO CLE(s):** Click [here](http://dese.mo.gov/divimprove/curriculum/GLE/documents/sc_cle_all_1107.pdf) to view the current draft of the Science Course Level Expectations. a. Identify pure substances by their physical and chemical properties (i.e., color, luster/reflectivity, hardness, conductivity, density, pH, melting point, boiling point, specific heat, solubility, phase at room temperature, chemical reactivity). b. Classify elements as metals, nonmetals, metalloids (semi-conductors), and noble gases according to their location on the Periodic Table. c. Describe the information provided by the atomic number and the mass number (i.e., electrical charge, chemical stability.)  d. Predict the chemical reactivity of elements, and the type of bonds that may result between them, using the Periodic Table. |
| [NIST Scientific & Technical Databases](http://www.nist.gov/ts/msd/srd/): This website provides access to a variety of scientific databases. Search by keyword, property, or substance name, to retrieve articles about that substance. |
| [Periodic Table](http://www.csrri.iit.edu/periodic-table.html): Click on any element to get its x-ray properties. |
| [Lenntech – Periodic Table](http://www.lenntech.com/periodic/periodic-chart.htm): This is an interactive Periodic Table. Click on the element to gather information about it. It also provides health and environmental risks pertaining to that element. |
| [Web Elements Periodic Table](http://www.webelements.com/): Another interactive table. Search by element, includes, structures and properties. |
| [Periodic Table and the elements](http://www.chem4kids.com/files/elem_intro.html) This site provides great information on each element. Click on the element to hear how to say it, andto find out more information about it. |
| [Cyber-rific Periodic Table](http://www.bayerus.com/msms/MSMS_Education_Resources_Activities/ResourcesSTP/ScienceFun/PeriodicTable/PeriodicTable.aspx): “Put your mouse on the chemical abbreviation to get the atomic number, atomic weight, common uses, and the phase at room temperature. Click on the table to get detailed information on each element.” |
| [PBS: Pyrotechnics](http://www.pbs.org/wgbh/nova/kaboom/elemental/): This site highlights elements that are used in making fireworks. Click on the elements to get information about them. |
| [Comic Books](http://www.uky.edu/Projects/Chemcomics/): Click on an element to read a comic strip about that element and its uses. |
| [ENI.g: Periodic Table](http://www.periodni.com/): Offers in depth information on each element. Available in multiple languages. Also includes an atomic weight calculator. |
| [Chemistry Quick Facts](http://www.chemistry.patent-invent.com/chemistry/index.html): Browse the elements, listed Alphabetically. Each row Contains basic element info. |
| [Periodic Table of the Elements](http://periodic.lanl.gov/default.htm): Search the Periodic Table of Elements, by clicking on different elements to locate information about that element. |
| [General Chemistry Online](http://antoine.frostburg.edu/chem/senese/101/index.shtml): This site provides lots of general Information about chemistry terms. Includes a searchable database of over 800 common compounds and their information. |
| [Chemical Elements.com](http://www.chemicalelements.com/): A very user friendly, clickable, Periodic Table. Provides basic info. on all the elements |
| [Links for Chemists](http://www.liv.ac.uk/Chemistry/Links/links.html): Provides resources dealing with different topics in chemistry. Enter your search term to see what resources are available. |
| [Tanner’s Interactive Table](http://www.tannerm.com/): “This is an interactive periodic table of the elements. Physical data for each chemical element can be obtained by clicking on its chemical symbol.” |
| [Chem 1: Organization of the Periodic Table](http://www.chem1.com/acad/webtext/atoms/atpt-6.html#ORG): This site gives information on the organization method of the Periodic Table of Elements. |
| [Historical Development of the Periodic Table](http://eppe.tripod.com/historyp.htm): Discusses the contributions of different scientists to the Periodic Table of Elements. |